Bruhat Bengaluru
Mahanagara Palike

Bruhat Bengaluru Mahanagara Palike

Measurement Book

1ST & FINAL BILL

Name of Work :-REPAIRS AND MAINTENANCE OF BOREWELLS AT SIDDEDAHALLI VILLAGE LIMIT IN BAGALAGUNTE WARD NO14

Estimate Cost:-33.00 Lakhs
Job Code No:-014-20-000003

Office of Asst Executive Engineer
T Dasarahalli Sub Division

Office of Executive Engineer
Dasarahalli Division

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Name of Work : REPAIRS AND MAINTENANCE OF BOREWELLS AT SIDDEDAHALLI VILLAGE LIMIT IN BAGALAGUNTE WARD NO14

DASARAHALLI DIVISION | **T DASARAHALLI SUB DIVISION**

Estimate Cost:-30.00 Lakhs, **JOB CODE: 014-20-000003**

Head of Account:- P-1771 ZONE WORKS - POW WORKS

Agency:-Sri MUNIRAJ NAIK, NO58,RAYANNA NAGARA , NELAMANGALA, BANGALORE-562123

Agreement No:- : EE/DD/AGR/480/2019-20 **Date-02-01-2020**

DETAILED MEASUREMENTS

Recorded on:- 13/03/20

BOQ Item No	Description Of Item of work	Nos		Measurements Length	Breath	Depth	Quantity	Units	Rate	Amount
1	2	3	4	5	6	7	8	9	10	11
1	Geophysical survey geophysical investigation of site for sinking Borewell for supplying drinking water to the habitation either through the hand pumps, MWS or PWSS by vertical electrical sounding by adopting venner or schlumbergers's method including recconnaisance suevey of geological formation Geophysical investigation of existing ground Water in the vicinity. its quality , quality & acceptabality of the users indicating the location of the site recommendeddepth of casing pipe required to seal the tope unconsolidated formation including an extra depth 1.0 metre in consolidated formation for aquire proposed to be tapped propable yield and other information required including transportation of instrument and accessories to work site, engating technical personal and labour									
	MUNIKONDAPPA LAYOUT									
		1	1				1.00			
				Total Qty			**1.00**	**Each**	**1938.00**	1938.00
2	Sinking of Borewell of 165 mm clear using fast hydraulic rig of capacity 250 PSIG & above 900 CMF & abpve in al strata including over burden upto 22 m fixing of casing pipes, collars and cap with necessary cutting and threading including transporation of rig and surpporting vehicles, screws charges and cost of consumable including yield testing at the final depth with a minimum working of compressor for one hour all as specified.									
2	0.00 to 50.00 mtrs	1	1	50.00			50.00		315.00	15750.00
3	50mtr to 100.00 mtr	1	1	50.00			50.00		412.00	20600.00
4	100.00 to 150.00 mtr	1	1	50.00			50.00		458.00	22900.00
5	150.00 to 200.00 mtr	1	1	50.00			50.00	Rmtr	484.00	24200.00
6	200.00 to 250.00 mtr	1	1	50.00			50.00		560.00	28000.00
7	250.00 to 300.00 mtr	1	1	50.00			50.00		600.00	30000.00
8	300.00 to 350.00 mtr	1	1	50.00			50.00		640.00	32000.00
9	350.00 to 365 Mtr	1	1	15.00			15.00		677.00	10155.00
11	Providing and Fixing 250mm dia PVC pipe and as per Specification and Direction (BWSSB SR 13-14, P.No.53, IT.No01 of Sl No.11									
		1		18.00			18.00			
				Total Qty			**18.00**	**Each**	**1,133.00**	20394.00
10	Supply of ISI Mark 175mm Nominal bore ,plain end steel Casing pipe- grade of steel Fee 410 of wall thickness 5.4 mm thick confirming to IS 1387/1933 and manufactured by basic open hearth electric or basic oxygen process in random lenth of 5 to 7mtrs. Both ends threaded Confirming to IS 554/1985, One end fixed with a Socket Confirming to IS 4270:2001 and the other end with Screwed pipes . All pipes shall be reasonably free from defectes. The tube shall be reasonably straight should be with ISI marking, weighing 25.10kg/mr. (Inclusive of all taxes) (PRED,2012-13 Page No.iii, item No-84)									

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BOQ Item No	Description Of item of work	Nos		Measurements			Quantity	Units	Rate	Amount
				Length	Breath	Depth				
1	2	3	4	5	6	7	8	9	10	11
		1		30.00			30.00			
				Total Qty			30.00	No	1,325.00	39750.00

Checked the work & found correct

Assistant Engineer-1

13/3/20

Assistant Executive Engineer 13.3.20.
T Dasarahalli Sub- Division
BBMP

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BOQ Item No	Description Of item of work	Nos		Measurements Length	Breath	Depth	Quantity	Units	Rate	Amount
1	2	3	4	5	6	7	8	9	10	11
	measurement continued on:- 16/3/20									
15	Providing and fixing of 50mm G.I pipe 'B' class heavy duty for erection of submersible pumpset galvanised tube 50mm supply ad delivary of cause heavy duty as per IS/239/1990 (P No.XLVII, SL.No 01) PWD SR 2018-19									
		1		300.00			300.00			
				Total Qty			**300.00**	**No**	439.00	131700.00
14	Supply and delivery of site brand new submersible pumpset suitable for borewell of 165mm dia and having the declared duty conditions as detailed below and satisfying performance Characteristics for pump and motor as declared by the bureau of indian stand. the pumpset should conform to IS : 8034-1989 (With all its latest amendments) and Should bear ISI Certification mark IS : 8034-1989 Sub mercible pumpset 20HP 40 stage Texmo/Taro or equalents Brands (KPWD SR 2018-19 Page No: XLII Item No.56)									
		1		1.00			1.00			
				Total Qty			**1.00**	**No**	85,200.00	85200.00
16	Supplying and Drawing 3 core Flat PVC Shalted Submersible Pump Cable Manufactured with Electrolytic Grade Copper with Flexible copper conductor to table 3 class 5 of IS 8130-1984 and Virgen PVC insulation and Sheeated Suitable for working Voltage Upto 1100 Volts BWSSB SR 2014-15, P- 535, I. 30Page no:12 sl no: 2.10.4									
		1		550.00			550.00			
				Total Qty			**550.00**	**Mtr**	164.00	90200.00
19	Fabricating Supplying and mounting MS Box of 16 SWG suitable for floor/ wall mounting fully weather proof with provision for better hear description, 9Providing with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamp with necessary cable entry pipe with gland and box should be finished 2 coats of red oxide primes paint and finally finished with approved colour enamelled metal paint etc., complete box of 21600 Sq cm (P.No.530, I.No.39, BWSSB SR 2013-14)									
		1		1.00			1.00			
				Total Qty			**1.00**	**No**	1,908.00	1908.00
20	Supplying and fixing 50mm Non Return Vavle of vertical type of approved make including cost of all materials labour HOM of equipment with all leads Complete as per Specifcation									
		1		1.00			1.00			
				Total Qty			**1.00**	**No**	1,908.00	1908.00
21	Supplying and fixing 50mm GM Gate Vavle PWD SR 2018-19, P.No-XLVII, Sl No.15									
		1		1.00			1.00			
				Total Qty			**1.00**	**No**	1,908.00	1908.00
22	Providing & Fixing of 50mm GI Short bend to motor (PWD SR 2018-19, P.No.XXXIX, GI Pipe Fittings, ISI Standard Table									
		1		1.00			1.00			
				Total Qty			**1.00**	**No**	232.00	232.00
23	Supplying and fixing 50mm GI Union PWD SR 2015-16, P.No.XXXVII,									
		1		1.00			1.00			
				Total Qty			**1.00**	**No**	237.00	237.00
24	Supplying and fixing 50mm GI Elbow PWD SR 2015-16, P-XXXVII									
		1		1.00			1.00			

Checked & Measured

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BOQ Item No	Description Of item of work	Nos		Measurements			Quantity	Units	Rate	Amount
				Length	Breath	Depth				
1	2	3	4	5	6	7	8	9	10	11
				Total Qty			1.00	No	111.00	111.00
12	Providing 175 mm dia MS Collar (RDED SR page ii, item86)									
		1		13.00			13.00			
				Total Qty			13.00	Each	150.00	1950.00
13	Providing 175 mm dia MS Cap(as per RDED SR page ii, item-85)									
		1		1.00			1.00			
				Total Qty			1.00	Each	100.00	100.00
25	Labour charges for laying 1.1 KV class UG cable when supplied by agencies in existing trenches GI pipe / stoneware pipe/ on pole as required, P-427, I-11 (a), BWSSB SR 2012-13.									
		1		50.00		-	50.00			
				Total Qty			50.00	per/ length	90.00	4500.00
17	Supplying and delivery at site brand new star / Essen / Lotus / Sun shines / Adharsh / GK Controls best indigenous make combined energy meter cum control panel board unit of size 1200x600x350mm minimum mechanically strong vermin and water proof. The unit shall have two detachable doors suitable for opration on 3ph, 50 hz, 380/440 volts, AC supply with spring loaded latch, locking device with a key ribs should be provided inside the door canopy apron and louvers ventilators shall be provided the combined energy meter cum control panel board unit suitable for operation on 3ph, 50 hz, 380/440 volts AC supply shall be consists etc., complete the panel board shall be consist etc., complete the panel board shall be fabricated on single unit in the above componenets panel board for suitable pumpset with star delta staretr out door type 10hp to 15 hp PRED ISSUE RATE									
		1		1.00			1.00			
				Total Qty			1.00	No	14,800.00	14800.00
18	Fabricating Supplying and mounting MS Box of 16 SWG suitable for floor/ wall mounting fully weather proof with provision for better hear description, 9Providing with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamp with necessary cable entry pipe with gland and box should be finished 2 coats of red oxide primes paint and finally finished with approved colour enamelled metal paint etc., complete box of 21600 Sq cm (P.No.530, I.No.39, BWSSB SR 2013-14)									
		1		1100.00	20.00		22,000.00			
				Total Qty			22000.00	Sqcm	0.35	7700.00

Assistant Engineer-14 16/3/20

Assistant Executive Engineer 16/3/20.
T Dasarahalli Sub- Division
BBMP

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BOQ Item No	Description Of item of work	Nos		Measurements Length	Breath	Depth	Quantity	Units	Rate	Amount
1	2	3	4	5	6	7	8	9	10	11
	measurement continued on:- 19/3/20									
26	Erection of combined panel board and meter unit with necessary materials and labour including providing cement concrete foundation bed cont door type etc., complete PRED ISSUE RATE									
		1		1.00			1.00			
				Total Qty			**1.00**	**No**	475.00	475.00
27	Supplying and fixing miniature Circuit breakers on existing MCB distribution boards using necessary fixing materials and wiring complete as required P-526, I-13 (P, a), BWSSB SR 2013-14.									
		1		1.00			1.00			
				Total Qty			**1.00**	**No**	906.00	906.00
28	Supplying and laying of L.T.U.G Cable having aluminium conductor PVC insulated shethed galvanised steel wire/ steel tape armoured cable with PVC outer sheathing 1.1 K V class 4 crore 16 sqmm cable 9Confirming to IS 1554) P.No.553, IT.No 10(d) BWSSB SR 2013-14									
		1		45.00			45.00			
				Total Qty			**45.00**	**Mtr**	169.00	7605.00
29	Digging of trench of 0.6m deep x 0.5m wide refilling the trench to the required level and consolidating etc., complete P-554, I-12 (b), BWSSB SR2013-14.									
		1		45.00			45.00			
				Total Qty			**45.00**	**Mtr**	56.00	2520.00
30	Supplying and fixing class A GI pipe on pole/Wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV class 40mm 9P.No.555, IT No.15 (b) BWSSB SR 2013-14.									
		1		3.00			3.00			
				Total Qty			**3.00**	**Mtr**	249.00	747.00
31	Supplying, fixing, wiring earth electrode for grounding conduits, LC cutouts and other equipments on the meter board using 40mm dia 2.90mm thick GI pipe 2.50m long buried in a pit. The pit should be filled with equal proportion of solt and charcoal 150mm alround the pipe to complete depth. the connection from the pipe to the conduct etc., is to be established through GI wire of size as per ISI specifications 7.3.3 IS 732 using 12mm dia bolts, nuts, washers and check nuts etc., the pipe shall have 16 throught holes of 122mm dia P-552, I-7, BWSSB SR 2013-14.									
		1		1.00			1.00			
				Total Qty			**1.00**	**No**	1,699.00	1699.00
32	Supply and fixing CI cast iron pot heads suitable for 1.1 KV class 16 sqmm UG cable filled with neccesary bitumen / insulating compound complete with termiinalas, clamps, bolts, nuts, washers etc., P-555, I No-16(b), BWSSB SR 2013-14									
		1		1.00			1.00			
				Total Qty			**1.00**	**No**	271.00	271.00
33	Supoplying Shunt capacitor's comfirming to IS 2834, 3phase 400/440 volts grade for power factor improvement of roating machinery capacitor in KVAR rating No;s (MR)									
		1		1.00			1.00			
				Total Qty			**1.00**	**No**	1,350.00	1350.00
34	Providing & Fixing Gun Metal Gate wheel valve confirming to IS Specifivation of approved make as per direction including all lead and lift etc., complete 50mm dia 9P No.94, It.No.13.796, PWD SR 18-19									
	checked	1		3.00			3.00			
				Total Qty			**3.00**	**No**	778.00	2334.00

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BOQ Item No	Description Of item of work	Nos		Measurements			Quantity	Units	Rate	Amount
				Length	Breath	Depth				
1	2	3	4	5	6	7	8	9	10	11
35	Supplying and fixing of polished wood board made up not less than 15mm thick plank in both side with plank made out on not more than 2 piecess and fixing the same to wall using tapered inverted wooden plugs screws etc., Size 20x20x2.5 inches (P.No.521, I.No.2(f), BWSSB SR 2013-14									
		1		1.00			1.00			
				Total Qty			**1.00**	**No**	311.00	311.00
36	Earthwork excavation for foundation of buildings water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications. specification. Noll KBS 2.1.C/2.9.4/2.18/2.19 (Pg. No-06, I.No-2.4)PWD - SR 2018-19)									
		1		135.00	0.60	0.75	60.75			
				Total Qty			**60.75**	**Cum**	475.00	28856.00
37	Providing and fixing Chorinated Poly Venyl Chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement & the cost of cutting chases & making good the same including testing of joints complete. (Concealed work including cutting chases and good the walls etc.)pg no 99,it no.13.87.8.PWD - SR 2018-19)									
		1		135.00			135.00			
				Total Qty			**135.00**	**Rmt**	1,908.00	257580.00

Assistant Engineer-14 19/3/20

Assistant Executive Engineer 19-3-20.
T Dasarahalli Sub- Division
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BOQ Item No	Description Of item of work	Nos		Measurements Length	Breath	Depth	Quantity	Units	Rate	Amount
1	2	3	4	5	6	7	8	9	10	11

measurement continued on:- 23/3/20

38	KSRB-2-4: Refilling available earth around pipe lines, cables in layers not exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50m. and lift upto 1.5m including cost of all labour complete as specifications.. allow 60% of rate considered under item KSRB 2.3 Page No. 7/ Item No. 2.11/PWD - SR 2018-19)									
		1		135.00	0.60	0.75	60.75			
				Total Qty			**60.75**	**Cum**	128.00	7776.00
39	Providing and fixing Chorinated Poly Venyl Chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement & the cost of cutting chases & making good the same including testing of joints complete. (Concealed work including cutting chases and good the walls etc.)pg no 99,it no.13.87.8.PWD - SR 2018-19)									
		2					2.00			
				Total Qty			**2.00**	**No**	74,287.00	148574.00
40	Supply and delivery at site brand new Texmo / Innoval / Lubi / Sabar / Atalanta / Calamal / waterman / Radha make suitable vertical installation in 150mm dia. Borewells comprising of single stage or miultistage CF pump close coupled by means of stainless steel coupling to suitable HP suitable speed totally enclosed and filled with pure drinking water (Wet type) squirrel cage submersible induction mortor suitable for operation of 3Ph., 50Hz. 380/44 volts AC supply fitted with required accessories such as suction. casing, suction strainers, sand guard Non return valve etc., complete the pump and motor shall form an integral unit with all the required fittings 20HP 25 stage Kirloskar, Atlanta, Suguna, CRI & other equipment pump (PWD SR 18-19 Page No XLII, Iteam. No 58									
		1					1.00			
				Total Qty			**1.00**	**No**	78,833.00	78833.00
41	Supplying and Drawing 3 core Flat PVC Shalted Submersible Pump Cable Manufactured with Electrolytic Grade Copper with Flexible copper conductor to table 3 class 5 of IS 8130-1984 and Virgen PVC insulation and Sheeated Suitable for working Voltage Upto 1100 Volts BWSSB SR 2012-13, P- 535, I. 30									
		1		2500.00			2,500.00			
				Total Qty			**2500.00**	**No**	159.00	397500.00
42	Supplying and fixing 50mm Non Return Vavle of vertical type of approved make including cost of all materials labour HOM of equipment with all leads Complete as per Specifcation PWD SR 2018-19, P.No-XLVII, Sl No.16,									
		2					2.00			
				Total Qty			**2.00**	**No**	1,150.00	2300.00
43	Supplying and fixing 50mm GM Gate Vavle (PWD SR 18-19, Sl No.673, P.No- XXVI Code No.0164)									
		2					2.00			
				Total Qty			**2.00**	**No**	1,650.00	3300.00
44	Supplying and fixing 175mm Borewell cap with clampset As per approved Rate per SERED Letter No 2081/2010-11, Dt.28.7.2010,									
		2					2.00			
				Total Qty			**2.00**	**No**	500.00	1000.00
45	Supplying and fixing 50mm GI Union PWD SR 2018-19, P.No.XXXIX									
		20					20.00			

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BOQ Item No	Description Of item of work	Nos		Measurements			Quantity	Units	Rate	Amount
				Length	Breath	Depth				
1	2	3	4	5	6	7	8	9	10	11
				Total Qty			20.00	No	223.00	4460.00
46	Supplying and fixing 50mm GI Elbow PWD SR 2018-19, P-XXXIX									
		10		2.00			20.00			
				Total Qty			20.00	No	111.00	2220.00

Assistant Engineer-1 23/3/20

Assistant Executive Engineer
T Dasarahalli Sub- Division
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BOQ Item No	Description Of item of work	Nos		Measurements Length	Breath	Depth	Quantity	Units	Rate	Amount
1	2	3	4	5	6	7	8	9	10	11
	measurement continued on:- 26/3/20									
47	Supplying and delivery at site brand new star / Essen / Lotus / Sun shines / Adharsh / GK Controls best indigenous make combined energy meter cum control panel board unit of size 1200x600x350mm minimum mechanically strong vermin and water proof. The unit shall have two detachable doors suitable for opration on 3ph, 50 hz, 380/440 volts, AC supply with spring loaded latch, locking device with a key ribs should be provided inside the door canopy apron and louvers ventilators shall be provided the combined energy meter cum control panel board unit suitable for operation on 3ph, 50 hz, 380/440 volts AC supply shall be consists etc., complete the panel board shall be consist etc., complete the panel board shall be fabricated on single unit in the above componenets panel board for suitable pumpset with star delta staretr out door type 10hp to 15 hp PRED ISSUE RATE									
		13					13.00			
				Total Qty			**13.00**	**No**	10,000.00	130000.00
48	Supplying and delivery at site brand new star / Essen / Lotus / Sun shines / Adharsh / GK Controls best indigenous make combined energy meter cum control panel boardProviding and fixing of 50mm G.I pipe 'C' class heavy duty for erection of submersible pumpset galvanised tube 50mm supply ad delivary of cause heavy duty as per IS/239/1990 (PRED SR P No.56, I.No 10.1)									
		1		923.00			923.00			
				Total Qty			**923.00**	**Mtr**	519.00	479037.00
49	Supplying and fixing 50mm GI coller Heavy duty PRED SR 2012-13 P-III S-86									
		9		15.00			135.00			
				Total Qty			**135.00**	**No**	150.00	20250.00
50	Erection of combined panel board and meter unit with necessary materials and labour including providing cement concrete foundation bed cont door type etc., complete PRED ISSUE RATE									
		5					5.00			
				Total Qty			**5.00**	**No**	475.00	2375.00

Assistant Engineer-1

26/3/20

Assistant Executive Engineer
T Dasarahalli Sub- Division
BBMP

26/3

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BOQ Item No	Description Of item of work	Nos		Measurements			Quantity	Units	Rate	Amount
				Length	Breath	Depth				
1	2	3	4	5	6	7	8	9	10	11
	measurement continued on:- 26/3/20									
51	Supplying of TPST with rewireable porcelain channels in SM encloser 15/32 amps P-521, Group-Bi-1(b), BWSSB SR 2013-14.									
		5					5.00			
				Total Qty			**5.00**	**No**	1,320.00	6600.00
52	Supplying and fixing 500x500x65mm polished wood board made up not less than 15mm thick plank in front plank one end provided for olding at other end fixing the same of the valve using through bolts and nuts, PRED ISSUE RATE									
		5					5.00			
				Total Qty			**5.00**	**No**	302.00	1510.00
53	Supplying and fixing LED Type panel board indicating lamp with required colour suitable for 220 v AC 50Hz 12/24 V DC Group 'B'. P-529, I-35(b), BWSSB SR 2013-14.									
		5		3.00			15.00			
				Total Qty			**15.00**	**No**	385.00	5775.00
54	Supplying and drawing each PVC insulated 650/100 V grade wire in the conduct (Open or Concealed system of wiring) 7/20 or 7/36 copper wire. P-380, I-20, ii(d), BWSSB SR2012-13.									
		2		10.00			20.00			
				Total Qty			**20.00**	**No**	27.00	540.00
55	Supplying, fixing and wiring heavy duty low voltage capacitors confirming to I 2834, 3 PHASE 400/440 Volts grade for power factor improvement of rotating machinery capacitor in KVAR rating Nos 2 KVAR Capacity P-402, I-34(a), BWSSB SR 2012-13.									
		5					5.00			
				Total Qty			**5.00**	**No**	385.00	1925.00
56	Supplying and fixing miniature Circuit breakers on existing MCB distribution boards using necessary fixing materials and wiring complete as required P-526, I-13 (P, a), BWSSB SR 2013-14.									
		5					5.00			
				Total Qty			**5.00**	**No**	880.00	4400.00
57	Supplying, fixing, wiring earth electrode for grounding conduits, LC cutouts and other equipments on the meter board using 40mm dia 2.90mm thick GI pipe 2.50m long buried in a pit. The pit should be filled with equal proportion of solt and charcoal 150mm alround the pipe to complete depth. the connection from the pipe to the conduct etc., is to be established through GI wire of size as per ISI specifications 7.3.3 IS 732 using 12mm dia bolts, nuts, washers and check nuts etc., the pipe shall have 16 throught holes of 122mm dia P-552, I-7, BWSSB SR 2013-14.									
		30					30.00			
				Total Qty			**30.00**	**No**	1,650.00	49500.00

Assistant Engineer-14 26/3/20

Assistant Executive Engineer 26/3
T Dasarahalli Sub- Division
BBMP

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BOQ Item No	Description Of item of work	Nos		Measurements Length	Breath	Depth	Quantity	Units	Rate	Amount
1	2	3	4	5	6	7	8	9	10	11
	measurement continued on:- 26/3/20									
58	Supplying and fixing class A (medium duty) GI pipe wall thickness not less than 3.25mm on pole. P-555, I-15, BWSSB SR 2013-14.									
		2		10.00			20.00			
				Total Qty			**20.00**	**No**	286.00	5720.00
59	Supplying and fixing wiring earth electrode for grounding conduits, IC cutouts and other equipments on the meter board using 40mm dia 2.90mm thick GI pipe 2.5 Mtr long buried in a pit,/ the pit should be filled with equal proporation of salt and charocal 150mm alround the pipe to complete depth the connections from the pipe to the conduits etc., is to be established through GI wire of size as per ISI specification 7.3.3 of ISI 732 using 12 mmdia boalts, nuts washers and checknuts etc,. the pipe shall have 16 through holes of 122mm dia (P.No.552, I.No.7, BWSSB SR 13-14)									
		2		2.00			4.00			
				Total Qty			**4.00**	**No**	1,650.00	6600.00
60	Labour charges for laying 1.1 KV class UG cable when supplied by agencies in existing trenches GI pipe / stoneware pipe/ on pole as required, P-427, I-11 (a), BWSSB SR 2012-13.									
		2		30.00			60.00			
				Total Qty			**60.00**	**No**	5.50	330.00

Assistant Engineer-14 26/3/20

Assistant Executive Engineer 26/3
T Dasarahalli Sub- Division
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BOQ Item No	Description Of item of work	Nos		Measurements			Quantity	Units	Rate	Amount
				Length	Breath	Depth				
1	2	3	4	5	6	7	8	9	10	11
	measurement continued on:- 27/3/20									
61	Digging of trench of 0.6m deep x 0.5m wide refilling the trench to the required level and consolidating etc., complete P-427, I-12 (a), BWSSB SR2012-13.									
		2		30.00			60.00			
				Total Qty			**60.00**	**No**	44.00	2640.00
62	Supply and fixing of cast iron pot heads suitable for 1.1 KV class 16 sqmm UG cable filled with neccesary bitumen / insulating compound complete with termiinalas, clamps, bolts, nuts, washers etc., P-428, I-16(b), BWSSB SR 2012-13.									
		2		30.00			60.00			
				Total Qty			**60.00**	**No**	264.00	15840.00
63	Supplying and fixing of porcelain fuse channel with cut-out on existing / new wooden panel using neccesary nuts, bolts and washers etc., BWSSB SR P-394 I-173									
		2		6.00			12.00			
				Total Qty			**12.00**	**No**	440.00	5280.00
64	Cutting of road surface for pipeline trenches and disposing of the excavated stuff as directed including barricading, danger lighting etc., in the Asphalt surface road. (Pg. No-269, I.No-37.38) PWD SR 2018-19									
		2		100.00	0.60	0.15	18.00			
				Total Qty			**18.00**	**Cum**	475.00	8550.00
65	Earthwork excavation for foundation of buildings water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications. specification. Noll KBS 2.1.C/2.9.4/2.18/2.19 (Pg. No-06, I.No-2.4) PWD SR 2018-19									
		1		250.00	0.45	0.60	67.50			
				Total Qty			**67.50**	**Cum**	475.00	32063.00

Assistant Engineer-14 27/3/20

Assistant Executive Engineer
T Dasarahalli Sub- Division
BBMP

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BOQ Item No	Description Of item of work	Nos		Measurements			Quantity	Units	Rate	Amount
				Length	Breath	Depth				
1	2	3	4	5	6	7	8	9	10	11
	measurement continued on:- 30/3/20									
67	Supplying and fixing 50 mm GI pipes 'B' class heavy duty (As PER bwssb Store Issued Rate) Note:- GI Pipe using for Road crossing places.									
		1		90.00			90.00			
				Total Qty			**90.00**	**Mtrs**	325.00	29250.00
66	KSRB 13.9: Providing and fixing to wall, ceiling and floor high density polyethylene pipes 6.00 kgf/sq.cm working pressure of outside diameter raising mains & exposed distribution pipes with special flange, compression type fittings, wall clips, making good the wall, ceiling and floor, including cost of all materials, labour charges, HOM and testing complete as per specifications. 63MM dia Specification No KBS 13.2.15.2 (Page no:96, I.No.13.73.2 PWD SR 2018-19).									
		1		250.00			250.00			
				Total Qty			**250.00**	**Rmt**	394.00	98500.00
68	Refilling available earth around pipe lines, cables in layers not exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50m. and lift upto 1.5m. Including cost of all labour complete as per specification. (Pg. No-7, I.No-2.11 PWD SR 2018-19).)									
		150					150.00			
				Total Qty			**150.00**	**No**	128.00	19200.00

Assistant Engineer-14 30/3/20

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T Dasarahalli Sub- Division
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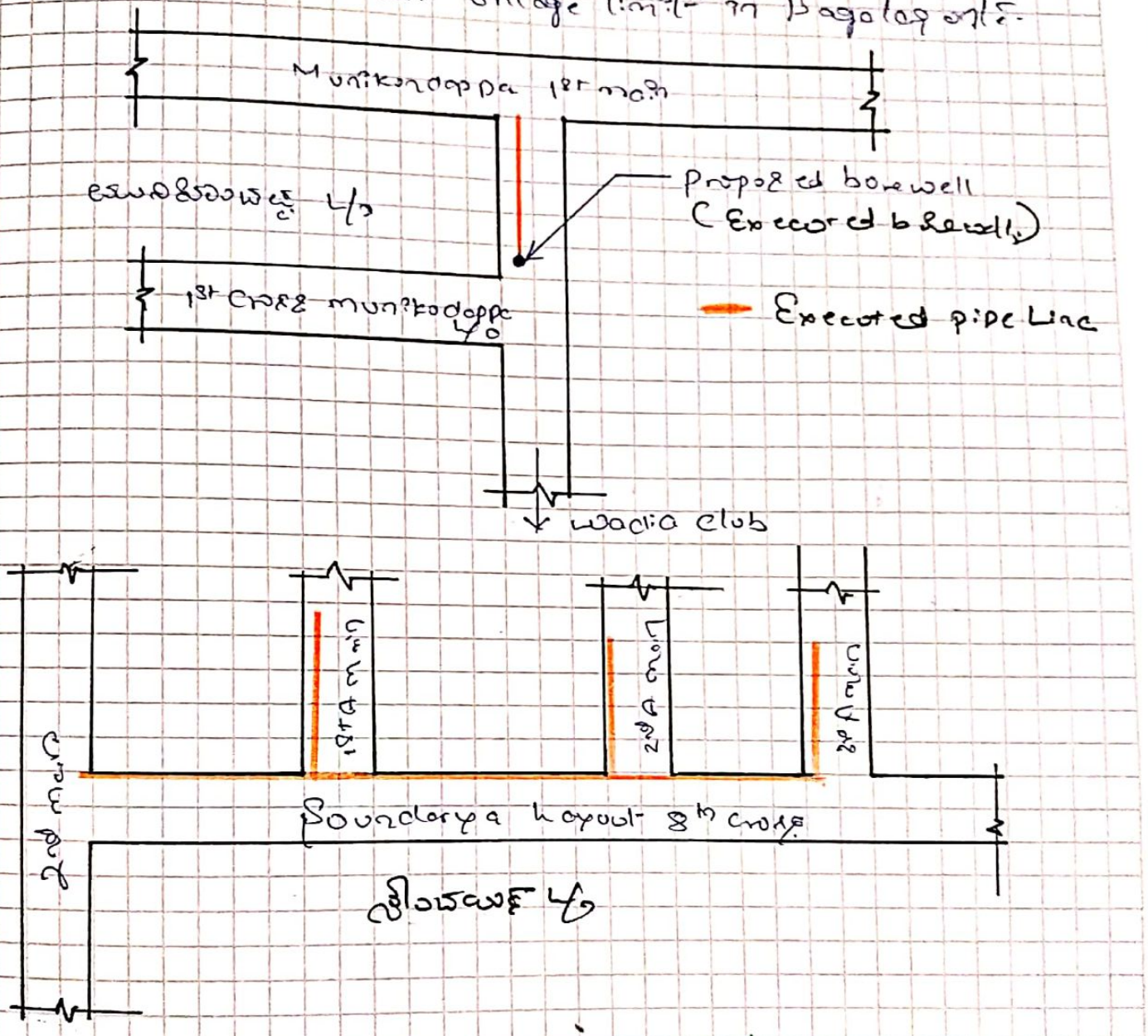
Name of work: Repair and maintenance of Borewells @ Sidedahalli village limit in Bagalagunte.



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ಟಿ. ದಾಸರಹಳ್ಳಿ ಉಪ ವಿಭಾಗ
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